

```
clear;clc;close all;  
numPoints=1E7;  
data=rand(numPoints,1);  
xgrid=linspace(0,1,numPoints/1E1+1);  
h=hist(data,xgrid);  
hh=hist(h,0:30);  
lambda=mean(h);  
hh=hh/sum(hh);  
bar(0:30,hh,'y');  
hold on  
stem(0:30,poisspdf(0:30,lambda))  
hold off  
legend('histogram data','fitted poisson pmf')
```

Describe in words the situation presented in code above. Are there any natural phenomena consistent with the model implicit in the code? Why is the Poisson Distribution appropriate here?

